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FAMILY COMMITTEE  
Minutes of Thirtieth Meeting  
January 11, 1951

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ADWD-235

SAH DOOR 6498 CCCC

A. Attendance.

The thirtieth meeting of the Family Committee was held Thursday, January 11, 1951 at 1:15 PM in Room E-117. Those present were

G. H. Best	D. P. MacDougall
J. C. Clark	J. C. Potts
F. de Hoffmann	L. E. Seely
G. K. Hess	R. F. Taschek
M. G. Holloway	E. Teller, Chairman
E. R. Jette	J. A. Wheeler
	H. F. York

B. Minutes of Twenty-Ninth Meeting.

The Committee unanimously adopted the minutes of the twenty-ninth meeting as reported in ADWD-230.

C. Booster.

Samples obtained from the Greenhouse sphere cases to be used for the booster gadget have been analyzed for nickel by CMR.

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1. X-ray Experiment.

York presented a review of the present status of the X-ray experiment.

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In this connection, there is appended a memorandum (Appendix A) from York giving a more detailed breakdown of this uncertainty.

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[REDACTED] It is believed that mixing is not likely to give rise to difficulties.

E. Next Meeting.

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Executive Secretary.

Distribution

1A	N. E. Bradbury	25A	E. Teller
2A	W. C. Bright	26A	" "
3A	S. W. Burris	27A	" "
4A	J. C. Clark	28A	" "
5A	D. K. Froman	29A	" "
6A	R. W. Goranson	30A	J. von Neumann
7A	A. C. Graves	31A	J. A. Wheeler
8A	G. K. Hess	32A	Document Room
9A	M. G. Holloway	33A	" "
10A	E. R. Jette	34A	" "
11A	" " "	35A	" "
12A	J. M. B. Kellogg	36A	" "
13A	J. L. Tuck	37A	" "
14A	D. P. MacDougall	38A	" "
15A	" " "	39A	C. Longmire
16A	D. P. MacMillan	40A	R. W. Spence
17A	J. H. Manley	41A	A. C. Graves
18A	J. C. Mark	42A	R. C. Smith
19A	H. C. Paxton	43A	W. E. Ogle
20A	F. Reines	44A	E. Teller
21A	" "	45A	" "
22A	" "	46A	" "
23A	A. R. Sayer	47A	" "
24A	R. F. Taschek	48A	" "

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APPENDIX A

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To: A. C. Graves and E. Teller

January 3, 1951

From: H. York and H. Bradner

Subject: Expected accuracy of temperature measurement in UCRL experiment

We think you may be interested in the following summary of the errors anticipated in our measurements. A detailed discussion of the points will be given in our pre-operation report.

[REDACTED] Therefore a given uncertainty in the flux determination results in  $1/8$  as large uncertainty in the inside temperature. DOE  
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There are two major uncertainties:

	<u>Error</u>	<u>Error in <math>T_i</math></u>
A) <u>Effective area of x-ray collimators during the time of observation.</u> It appears that this area may be uncertain to the order of	20 c/o	2.5 o/o
B) Normal opacity values will be uncertain to	20 o/o	2.5 o/o

The other uncertainties are small,

C) <u>Overall calibration</u>	10 o/o	1.3 o/o
D) <u>Explosion of fluorescer foil</u>	10 o/o	1.3 o/o
E) <u>Deviations from Planck spectrum will produce a small error.</u>		

F)

Even crude calculations of these last two sources will make the uncertainties unimportant compared with A) and B).

HY/kj

H. York/H.Bradner

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Fig. I

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